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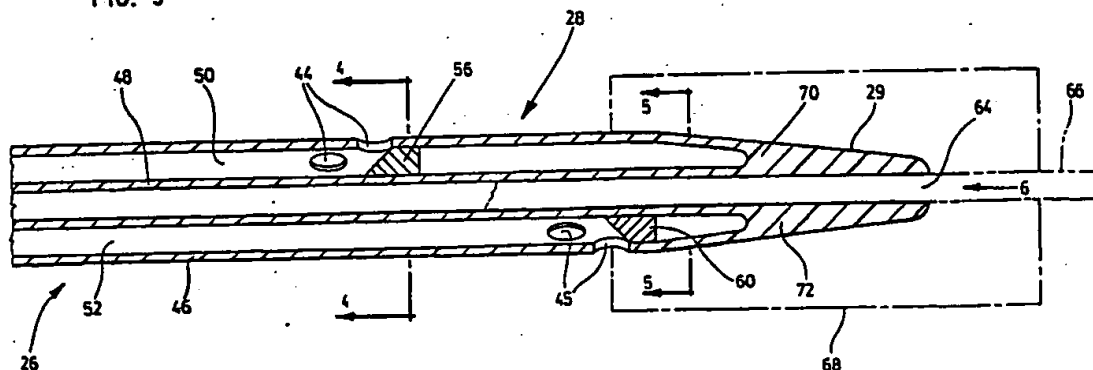
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(54) **Triple lumen catheter.**

(57) A multiple lumen catheter and its method of manufacture is described having a flexible elongate body (26) extending about a longitudinal axis and having a distal end (28) with a tapered tip (29), a proximal end (30), an outer wall (46) and a septum (48) extending between spaced points on the outer wall. The outer wall and the septum define extraction (50) and return (52) lumens extending from the proximal end to the tapered tip where the outer wall and the septum converge to close off the lumens. The outer wall also defines respective extraction (44)

and return (45) apertures for fluid communication between the lumens and the tube exterior. A portion of the septum defines a third lumen (54) extending along the longitudinal axis of the body from the proximal end to the distal end and terminating at the tip in an aperture. This third lumen is useful to receive a Seldinger wire (21) for insertion and can be used also for intravenous infusion of liquid medicaments.

FIG. 3



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EUROPEAN SEARCH REPORT

Application Number

EP 88 31 2142

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL.4)
X	US-A-4596564 (SPETZLER ET AL.) * claim 1; figures 3-11 *	1	A61M25/00
A	—	2-8, 14-23	
A,D	US-A-4072146 (HOWES) * figures 1-6 *	1-3, 12-18, 21-23	
A,D	US-A-4406656 (HATTLER ET AL.) * claim 1; figures 1-3, 8-11 *	1-4, 18, 19, 21, 23	
A	FR-A-2201908 (THOMSON MEDICAL TELCO) * claims 1-5; figures 2, 5 *	1-4, 19, 20	
A	CA-A-1225299 (BAI) * claims 1-6, 13; figures 1, a-e *	1-5, 9, 24, 25	
			TECHNICAL FIELDS SEARCHED (Int. CL.4)
			A61M
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 20 FEBRUARY 1991	Examiner MICHELS N.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document			